

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P#

Luminaire Tested: **4SNLED-LD5-46SL-SLC-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27404)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-46SL-SLC-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

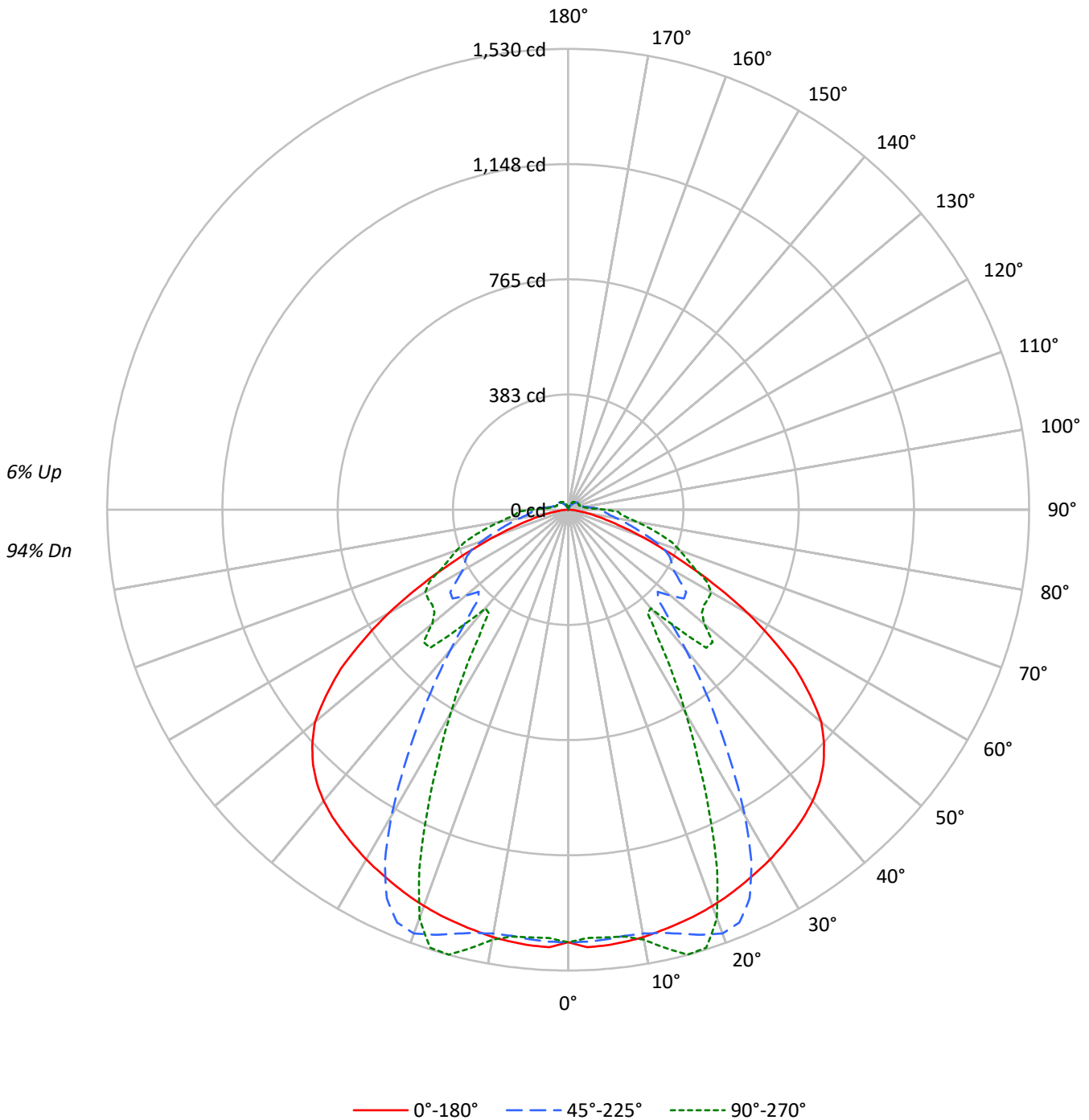
Lumens per Lamp: N/A
Luminaire Lumens: 3689.0 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 35
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	107	102	98	94	104	99	95	92	94	91	88	89	87	84	85	83	81	78
2	98	90	83	77	95	87	81	76	83	78	73	79	74	71	75	71	68	66
3	89	79	71	65	87	77	70	64	73	67	62	70	65	60	67	62	59	56
4	82	71	62	56	80	69	61	55	66	59	53	63	57	52	60	55	51	49
5	76	63	55	48	74	62	54	48	59	52	47	57	51	46	54	49	45	43
6	70	58	49	43	68	56	48	42	54	47	41	52	45	41	50	44	40	38
7	66	52	44	38	64	51	43	38	49	42	37	47	41	36	46	40	36	34
8	61	48	40	34	59	47	39	34	45	38	33	44	37	33	42	37	32	30
9	57	44	36	31	56	44	36	31	42	35	30	41	34	30	39	34	29	28
10	54	41	33	28	52	40	33	28	39	32	28	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11605	11605	11605
5°	11746	11334	11194
10°	11761	11161	11155
15°	11794	11318	11627
20°	11903	11655	10913
25°	12051	11201	8403
30°	12289	9382	5977
35°	12593	7105	4047
40°	12978	5165	3427
45°	13273	3747	5388
50°	13291	4149	5113
55°	12424	4775	5049
60°	10585	4370	5367
65°	7964	4406	4909
70°	5588	4011	4570
75°	3663	3360	4100
80°	2336	2878	3413
85°	1257	2736	3063



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.6	3.7
10°-20°	412.6	11.2
20°-30°	599.4	16.2
30°-40°	572.7	15.5
40°-50°	523.8	14.2
50°-60°	483.7	13.1
60°-70°	384.2	10.4
70°-80°	237.1	6.4
80°-90°	129.1	3.5
90°-100°	65.3	1.8
100°-110°	41.0	1.1
110°-120°	34.7	0.9
120°-130°	28.4	0.8
130°-140°	20.3	0.6
140°-150°	12.5	0.3
150°-160°	6.0	0.2
160°-170°	1.5	0.0
170°-180°	0.0	0.0
0°-30°	1148.6	31.1
0°-40°	1721.2	46.7
0°-60°	2728.8	74.0
0°-90°	3479.2	94.3
90°-120°	141.0	3.8
90°-150°	202.3	5.5
90°-180°	210.0	5.7
0°-180°	3689.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1436	1436	1436	1436	1436	
5°	1452	1430	1432	1425	1425	138
15°	1422	1402	1457	1511	1530	402
25°	1371	1398	1425	1206	1107	634
35°	1304	1284	865	596	518	818
45°	1198	835	422	538	648	920
55°	921	428	478	514	550	811
65°	444	278	372	453	463	449
75°	131	148	223	296	315	148
85°	18	63	126	172	175	23
90°	1	47	113	134	124	1
95°	0	44	78	69	66	0
105°	0	39	48	44	43	0
115°	0	32	46	41	39	0
125°	1	26	41	40	38	0
135°	1	18	33	36	35	0
145°	1	11	23	29	31	0
155°	1	7	14	18	22	0
165°	1	4	7	9	12	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1436.1	1436.1	1436.1	1436.1	1436.1
2.5°	1453.9	1432.9	1435.5	1431.0	1423.4
5°	1452.0	1429.7	1432.3	1424.6	1425.3
7.5°	1446.9	1424.0	1427.2	1425.9	1429.1
10°	1441.2	1417.0	1429.1	1439.9	1449.4
12.5°	1431.0	1409.4	1438.6	1470.4	1490.1
15°	1421.5	1402.4	1457.1	1511.1	1529.5
17.5°	1411.9	1399.9	1480.0	1527.0	1524.5
20°	1399.9	1398.6	1497.1	1481.2	1442.4
22.5°	1386.5	1399.2	1483.8	1367.4	1291.1
25°	1371.2	1397.9	1424.6	1206.0	1107.4
27.5°	1356.0	1392.2	1317.2	1029.2	932.0
30°	1340.7	1377.0	1172.3	867.8	779.4
32.5°	1322.9	1343.9	1014.6	724.7	643.3
35°	1304.5	1283.5	865.2	595.7	518.1
37.5°	1285.4	1196.4	731.1	482.5	432.9
40°	1262.5	1087.1	607.7	413.9	427.2
42.5°	1233.9	963.8	499.0	434.2	527.0
45°	1197.7	835.3	422.1	538.5	648.4
47.5°	1151.9	712.0	403.0	616.6	651.0
50°	1096.6	598.8	443.1	591.2	588.7
52.5°	1012.7	504.8	483.8	539.1	559.4
55°	921.2	428.5	478.1	514.3	550.5
57.5°	805.5	377.0	438.6	509.2	551.2
60°	690.4	342.7	405.0	508.6	548.0
62.5°	563.2	311.5	387.8	496.5	520.0
65°	444.4	277.8	372.5	452.6	463.4
67.5°	340.7	243.5	345.8	403.7	425.3
70°	256.8	209.8	303.9	366.2	392.9
72.5°	185.0	178.0	260.6	333.1	361.1
75°	131.0	148.1	223.1	295.6	315.3
77.5°	90.3	120.8	191.4	254.3	270.2
80°	59.1	96.6	162.7	218.7	229.5
82.5°	35.6	77.6	141.1	191.4	197.1
85°	18.4	62.9	126.5	172.3	174.8
87.5°	5.7	52.8	118.2	163.4	166.6
90°	0.6	47.0	113.2	134.1	124.0
92.5°	0.0	44.5	97.9	91.5	82.0
95°	0.0	43.9	78.2	69.3	65.5
97.5°	0.0	42.6	64.2	57.9	55.9
100°	0.0	41.3	55.3	50.9	50.2
102.5°	0.0	40.7	50.2	46.4	45.8
105°	0.0	39.4	48.3	43.9	43.2
107.5°	0.0	37.5	47.0	42.6	41.3
110°	0.0	35.6	47.0	42.0	40.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	33.7	47.0	41.3	39.4
115°	0.0	32.4	46.4	41.3	39.4
117.5°	0.6	31.2	45.8	41.3	39.4
120°	0.0	29.9	44.5	41.3	38.8
122.5°	0.6	28.0	43.2	40.7	38.8
125°	0.6	26.1	41.3	40.1	38.1
127.5°	0.6	24.2	39.4	38.8	36.9
130°	0.6	22.3	37.5	38.1	36.2
132.5°	0.6	20.3	35.0	36.9	35.6
135°	0.6	18.4	33.1	36.2	35.0
137.5°	0.6	16.5	30.5	34.3	34.3
140°	0.6	14.6	28.0	33.1	33.7
142.5°	0.6	13.4	25.4	31.8	32.4
145°	0.6	11.4	22.9	29.2	31.2
147.5°	0.6	10.2	20.3	26.7	29.2
150°	0.6	8.9	17.8	24.2	26.7
152.5°	0.6	7.6	15.9	21.0	24.8
155°	1.3	7.0	14.0	18.4	22.3
157.5°	1.3	5.7	11.4	15.9	19.1
160°	1.3	5.1	10.2	13.4	17.2
162.5°	1.3	4.5	8.3	11.4	14.6
165°	1.3	3.8	7.0	8.9	12.1
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)